

International Bureau





(43) International Publication Date 3 February 2005 (03.02.2005)

PCT

(10) International Publication Number WO 2005/009982 A3

(51) International Patent Classification⁷: C07D 417/04, 275/06, A61K 31/425

(21) International Application Number:

PCT/US2004/021914

(22) International Filing Date: 9 July 2004 (09.07.2004)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 60/485,958

10 July 2003 (10.07.2003) US

(71) Applicant (for all designated States except US): NEURO-GEN CORPORATION [US/US]; 35 Northeast Industrial Road, Branford, CT 06405 (US).

(72) Inventors; and

- (75) Inventors/Applicants (for US only): BLUM, Charles, A. [US/US]; 785 W. Pond Meadow Road, Westbrook, CT 06498 (US). ZHENG, Xiazhang [CN/US]; 10Roby Court, Branford, CT 06405 (US).
- (74) Agents: ALEXANDER, John, B. et al.; Edwards & Angell, LLP, P.O. Box 55874, Boston, MA 02205 (US).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM,

AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

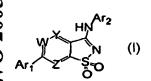
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 12 May 2005

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ARYL-SUBSTITUTED BENZO[D]ISOTHIAZOL-3-YLAMINE ANALOGUES AS CAPSAICIN RECEPTOR MOD-ULATORS



(57) Abstract: Aryl-substituted benzo[d]isothiazol-3-ylamine analogues are provided, of the Formula (I): wherein variables are as described herein. Such compounds are ligands that may be used to modulate capsaicin in vivo or in vitro, and are particularly useful in the treatment of conditions associated with pathological capsaicin receptor activation in humans, domesticated companion animals and livestock animals. Pharmaceutical compositions and methods for using such compounds to treat such disorders are provided, as are methods for using such ligands for receptor localization studies.